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AMENDED PATENT APPLICATION FOR 10/621,013 SCANNING DEVICE WITH SENSORS AND CAMERA OR TRICORDER.



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```
BrainStem Programming Code - Figure 1e.
#include <aCore.tea>
#include <aGP.tea>
#include <aCompass.tea>
void init()
  /* switch to internal heartbeat */
  /* otherwise terminal program will receive heartbeats */
  asm
  {
    pushlb
           1
    popbm
            aPortHBMode
}
void aDump IntDec(int n)
  asm
    pushss 4
    fmtsd
    popbm aPortSerialNTX
  }
}
void aDump CharDec(char c)
  asm
    pushsb 3
    fmtbd
    popbm aPortSerialNTX
  }
}
void aDump Char(char c)
{
  asm
    pushsb 3
    pushlb 1
    popbm aPortSerialNTX
  }
}
void aDump String(string s)
```

```
{
  asm {
    pushsb 3
next:
            end
    brz
            1
    pushsb
    pushlb
    addb
    pushsbx
    pushlb
            aPortSerialNTX
    mdqoq
    decb
    goto
            next
end:
    popb
  }
}
void main()
   int i = 0;
   int x = 0;
   int y = 0;
   int j = 0;
   init();
   /* waits about 9 seconds */
   /* to provide time to close Console and launch terminal */
   aCore Sleep(30000);
   aCore Sleep(30000);
   aCore Sleep(30000);
   while (1)
   {
       x = aGP ReadGP2D02();
       aCore Sleep(10000);
       aDump String("R: ");
       aDump IntDec(x);
       aDump String(" ");
       j = aCompass ReadInt();
       aCore Sleep(10000);
       aDump String(" H: ");
       aDump IntDec(j / (int)10);
       y = j / 10;
       if (y==359) aDump String ("-N \sim");
       else if(y==0 \mid \mid y==1) aDump String("-N");
```

```
else if(y>1 && y<89) aDump_String("-NE");
else if(y>88 && y<92) aDump_String("-E");
else if(y>91 && y<179) aDump_String("-SE");
else if(y>178 && y<182) aDump_String("-S");
else if(y>181 && y<269) aDump_String("-SW");
else if(y>268 && y<272) aDump_String("-W");
else if(y>271 && y<359) aDump_String("-NW");
aDump_String(" ~");
aDump_Char(13);
aDump_Char(10);

aDump_String(" \n");
aCore_Sleep(2500);
}</pre>
```